PER CAPITA ANNUAL UTILIZATION AND CONSUMPTION OF FISH AND SHELLFISH IN HAWAII, 1970-77

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INTRODUCTION

In 1977, the United States per capita consumption of edible (meat-weight) fish and shellfish was 5.82 kg (12.8 pounds).

It has been speculated that the per capita consumption of fishery products in the State of Hawaii is considerably higher than the United States average. No studies have been done to verify this speculation. This paper is an attempt to quantify this actual consumption in Hawaii for the period 1970-77. This quantification required computation of the total supply of fish and fishery products available in Hawaii. The total supply was then adjusted to edible weight and divided by the population. The result is that the per capita consumption rate in Hawaii for 1977 was about 77 percent higher than the United States average.

Foreign imports represented, in 1977, approximately 54 percent of the total supply of fish and shellfish in Hawaii. Therefore, a section and tables are included in which these imports are disaggregated by quantity, value, and type of preparation for 1970-77; and by major product and major country of origin for 1976 and 1977.

An effort was made to calculate the per capita figures with the same methodology as that used in Fisheries of the United States where national per capita estimates are published. The units of quantity and measurement in this report are not exactly comparable in some cases. These measurement discrepancies, as indicated in the table notes, should not however, hinder the usefulness of these preliminary estimates.

DATA AND METHODS

The State of Hawaii has three major sources of commercial fish and fishery products for human consumption: 1) local catch, 2) imports from foreign countries, and 3) interstate shipments from the mainland United States. Table 1 gives totals for these sources. Hawaii landings are shown in round (live) weight as reported by the vessels to the State of Hawaii, Division of Fish and Game. Foreign imports and interstate shipments are in net product weight, as recorded at the port by U.S. Customs officials and published by the U.S. Bureau of the Census (1970-77) and the U.S. Army Corps of Engineers (1970-77).

Table 2

Table 1

Hawaii per capita utilization (Table 2) is determined using total supply of fishery products without adjustment for beginning or ending stocks, foreign exports or defense

Table 3

Table 4

purchases. Table 3 gives a comparison of the United States

and Hawaii per capita utilization rates. Table 4 gives United

States per capita consumption of fish and shellfish as pub-

lished by the National Marine Fisheries Service. Hawaii per

Tables 5-7 capita consumption in Tables 5-7 is based on pounds of edible

(meat-weight) fish. Figures for Hawaii in Tables 5-7 are

adjusted for foreign exports of fish and shellfish and

shipments of canned tuna and fresh and frozen fish to the

mainland United States. Supply of cured fish for consumption

includes fish dried, salted, smoked or kippered whether

canned or not. Cured supply does not include local production of

cured fishery products. Raw inputs for local production are

counted under fresh, frozen, or chilled. Supply of canned

fish for consumption includes fish of all preparations in

airtight containers, most of which are cans.

The State of Hawaii has three variable components of population in addition to the civilian resident population: military, visitors, and foreign in-migrants. Military includes those who are serving in the armed forces and either actually residing in Hawaii or stationed aboard a ship homeported in Hawaii. Since 1971, the military has stabilized at around 6 percent of total de facto population (those actually present in the State). Military dependents are counted as part of the resident civilian population. There are approximately 1.15 dependents per military

member in Hawaii. Visitor population estimated by the Hawaii
Visitors Bureau during 1978 was around 9 percent of the total
population based on the annual average number of visitors
present. Approximately 8 percent of the civilian resident
population of Hawaii in 1970 were foreign born persons from China
mainland, Taiwan, Japan, Korea, and the Philippines. All of
these countries have substantially higher per capita fish
consumption rates than that of the United States (U.S.
National Marine Fisheries Service, 1978:74). These three
components of population may account for over 20 percent of
the actual population present in the state at a given time.
For this reason, per capita consumption was calculated for
various measures of population which would include these
groups.

FOREIGN IMPORTS

Imports from foreign countries in 1977 represented 54 percent of the total supply of fish, fishery products, and shellfish in Hawaii. Table 8 gives these imports by year and type of preparation, aggregated over countries. All of these products are those designated for human consumption. Values are unadjusted and reflect customs values. Customs value generally represents a value in the foreign country,

Table 8

and therefore excludes United States import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States. This value may not reflect the actual transaction value.

Table 9

Table 9 gives imports to Hawaii of fresh, frozen, or chilled fish, and shellfish by major country of origin, quantity, and customs value. Relative rankings of these countries vary between 1976 and 1977. However, the major five countries (New Hebrides, Philippines, Taiwan, Japan, and Panama) are the same for both years. Fiji had no recorded exports to Hawaii in these categories for 1977.

Table 10

Table 10 gives imports to Hawaii "in cans or airtight containers." Shellfish and anchovies are the major products. In 1972, the major sardine exporting countries were Brazil, United Kingdom, and Denmark. In 1973, only Denmark is recorded as exporting sardines to the Honolulu customs district which is reflected in the much lower 1973 figure. The category marked "other" in this and subsequent tables represents other species which the U.S. Customs aggregates under the heading "not elsewhere specified."

Table 11

Table 11 reflects edible fishery products by major type of preparation. Tuna, fish fillets, and shellfish comprise over 90 percent of the total fresh and frozen imports to Hawaii for 1976 and 1977. The itemized entries under "canned" for 1976 reflect over 60 percent of the total quantity of canned imports to Hawaii and for 1977 over 78 percent. The category "Other fish and shellfish" reflects the sum over type of preparation of the "not elsewhere classified" specifications.

Table 12

Table 12 represents estimated per capita consumption of foreign imports by type of preparation, adjusted to pounds of edible fishery products divided by civilian resident population of Hawaii on 1 July of each year.

SUMMARY AND CONCLUSIONS

The tabulated data show that the total per capita consumption of fish and shellfish in the State of Hawaii has been higher than the United States average over the entire period, 1970-77. Specifically, the following conclusions can be drawn about fish and shellfish consumption:

- 1) United States per capita total consumption has followed a slightly upward trend, From 1973 to 1977, consumption varied between 5.45 and 5.91 kg (12 and 13 pounds).
- 2) Hawaii per capita consumption for all fish products followed an unclear trend over the period. Consumption declined dramatically from 1972 (11.14 kg (24.5 pounds)) to 1974 (8.77 kg (19.3 pounds)) and has since followed a solidly upward trend.

- 3) Fresh and frozen per capita consumption in Hawaii has ranged from 206 percent (in 1971) to 87 percent (in 1976) above the national average.
- 4) Canned per capita consumption in Hawaii since 1973 has been below the United States average.
- 5) Cured per capita consumption in Hawaii has been above the United States average for the period. Since this does not include local Hawaii production, the cured consumption rate in Hawaii is actually higher than the data indicate.

These results show that the most pronounced decline in the 1972-74 period occurred in the fresh and frozen category. During this time, factors which may have possibly caused the decline were: a) a change in tastes due to the public concern over high mercury content in large pelagic fishes. Market observers during this period report that the local fishermen were unable to sell many of their fish and that it is conceivable it would have taken several years for the consumers to return to their higher preference levels for fish. b) The observed reduction in the quantity of local supply during 1972-74 was possibly a result of a decline in demand due to a change in tastes. c) At the same time (1972) the visitor population began to grow much faster (12.2 percent annually) than the civilian resident population (2.1 percent annually). This visitor population may exhibit

differential consumption rates that are higher or lower than the resident population. However, any effect other than an absolute increase in the population is indeterminant. A diminished supply of fresh fish combined with a larger population base would result in a lower observed per capita consumption rate.

Hawaii has a large recreational fishery. The decline in

Footnote 1

the fresh category may be modified when consumption by recreationalists that is not reported in commercial catch is taken into consideration. Yearly data for recreational landings as a separate category are not available. A recent study used Kailua-Kona, Hawaii, survey information to estimate game fish catch by commercial and recreational troller vessels for 1976. The authors' "Estimate I" (Table 4) represents an adjustment to statewide Division of Fish and Game data which accounts for underreporting and differential vessel catch rates by vessel category. When this estimate was considered, the total Hawaii supply of fish and fishery products (for 1976) increased from 17,829,909.1 kg (39,212,600 pounds) to 18,432,090.9 kg (40,550,600 pounds). Per capita consumption of fresh and frozen fish increased from 6.95 kg (15.3 pounds) to 7.32 kg (16.1 pounds). Total Hawaii per capita consumption increased from 9.27 kg (20.4 pounds) to 9.64 kg (21.2 pounds).

Footnote 2

Consumption of canned and cured fish are unaffected. It should be noted that the above estimate should therefore be considered as an approximation of one component of total recreational catch, that component caught by troller vessels and sold. Recreational catch that is not sold does not have to be reported.

Estimates of per capita consumption rates and the trends of these rates provide valuable input to research and policy planning. Specific determinants of this consumption have not been addressed here. However, these results have implications in particular for the Hawaii fishing industry, the aquaculture development program in Hawaii, the State of Hawaii Fisheries Development Plan and Regional Fishery Management Plans.

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 Islands, by types of troll and longline vessels and by
 species, 1976. SWFC Admin. Rep. 24H, Natl. Mar. Fish.
 Serv., NOAA, Honolulu, HI 96812, 10 p. (Unpubl. rep.)
- 2. Population is total resident civilian.

Table 1.--Total Hawaii supply of commercial fish and shellfish by source and year, 1970-77.

| Year | Local commercial landings ² | Foreign imports ³ | Interstate shipments | Total |
|-------------|--|---------------------------------|-------------------------|----------|
| | | Thousand poun | ds_ | |
| 1970 | 11,282.2 | 22,960.3 | 5,896.0 | 40,138.6 |
| 1971 | 17,159.8 | 18,681.3 | 5,764.0 | 41,605.1 |
| 1972 | 14,754.7 | 28,953.6 | 4,682.0 | 48,390.3 |
| 1973 | 14,382.4 | 21,346.9 | 3,950.0 | 39,679.3 |
| 1974 | 11,323.7 | 24,467.2 | 4,068.0 | 39,858.9 |
| 1975 | 9,724.5 | 22,015.6 | 4,362.0 | 36,101.9 |
| 1976 | 15,272.3 | 19,846.3 | 4,094.0 | 39,212.6 |
| 1977 | 13,783.4 | 30,991.3 | 7,650.0 | 52,424.7 |
| | | | | |

¹Based on the total supply of edible fishery products, without taking into consideration beginning or ending stocks, exports, or defense purchases.

²State of Hawaii, Department of Land and Natural Resources, Division of Fish and Game. Reports in round weight.

³U.S. Bureau of the Census (1970-77). Reported in net product weight.

⁴U.S. Army Corps of Engineers (1970-77). Reported in net product weight.

1 Hawaii by year, source of fish, and two population groups, 1970-77.

| ŀ | | | Per capit | Per capita utilization | no |
|-----|-----------------|-----------------|-----------|------------------------|-------|
| | Total resident | Visitors | | Interstate | |
| | military plus | (annual | Local | and | |
| | (1,000 persons) | (1,000 persons) | catch | imports | Total |
| | 803.4 | 37.6 | 14.1 | 35.9 | 50.0 |
| _ | 833.3 | 41.9 | 20.7 | 29.3 | 50.0 |
| | 865.9 | 51.3 | 17.0 | 38.9 | 55.9 |
| | 895.9 | 61.6 | 16.1 | 28.2 | 44.3 |
| . • | 913.6 | 0.99 | 12.4 | 31.2 | 43.6 |
| | 927.7 | 68.8 | 10.5 | 28.4 | 38.9 |
| | 952.7 | 78.5 | 16.0 | 25.2 | 41.2 |
| 9 | 972.5 | 86.8 | 14.3 | 39.7 | 54.0 |

ense purchases. Excludes imports of nonedible fishery products.

Table 3.--United States and Hawaii total supply and per capita utilization of commercial fish and shellfish by year, 1970-77.

| | Total | supply 1 | Total pe utiliz | |
|------|---------|----------|--------------------|--------|
| | U.S. | Hawaii | U.S. ³ | Hawaii |
| | Million | pounds | Pour | nds |
| 1970 | 11,474 | 41.13 | 56.0 | 51.7 |
| 1971 | 11,804 | 43.11 | 57.0 | 51.9 |
| 1972 | 13,849 | 49.68 | 66.3 | 58.8 |
| 1973 | 10,378 | 40.94 | 49.3 | 47.3 |
| 1974 | 9,875 | 40.85 | 46.6 | 46.6 |
| 1975 | 10,129 | 36.95 | 47.4 | 41.6 |
| 1976 | 411,555 | 40.55 | 53.7 | 44.4 |
| 1977 | 410,579 | 53.63 | 48.8 | 58.6 |

¹Total supply for U.S. includes nonedible and industrial fishery products not included in total supply for Hawaii.

²Population is total resident civilian and military population present on 1 July.

 $^{^{3}}$ U.S. National Marine Fisheries Service (1978:70).

⁴Preliminary.

Table 4.--United States per capita consumption of commercial fish and shellfish by year and three types of preparation, 1970-77.

| | Civilian | | capita con | sumption | |
|------|---------------------------------------|------------------|------------|----------|-------|
| Year | resident population (million persons) | Fresh and frozen | Canned | Cured | Total |
| | | | Pounds | <u>.</u> | |
| 1970 | 201.7 | 6.9 | 4.5 | 0.4 | 11.8 |
| 1971 | 204.3 | 6.7 | 4.3 | 0.5 | 11.5 |
| 1972 | 206.5 | 7.2 | 4.9 | 0.4 | 12.5 |
| 1973 | 208.1 | 7.5 | 5.0 | 0.4 | 12.9 |
| 1974 | 209.7 | 7.0 | 4.8 | 0.4 | 12.2 |
| 1975 | 211.4 | 7.4 | 4.3 | 0.4 | 12.1 |
| 1976 | ² 213.0 | 8.2 | 4.3 | 0.5 | 13.0 |
| 1977 | ² 214.7 | 7.8 | 4.6 | 0.4 | 12.8 |

¹U.S. National Marine Fisheries Service (1978:72).

²Preliminary.

Table 5.--Hawaii per capita consumption of commercial fish and shellfish by year and three categories of preparation, 1970-77.

| | Total civilian resident population | Per | capita con | sumption | |
|------|------------------------------------|------------------|---------------------|--------------------|-------|
| Year | 1 July (1,000 persons) | Fresh and frozen | Canned ² | Cured ³ | Total |
| | | | Pounds | | |
| 1970 | 722.6 | 19.4 | 5.3 | 1.0 | 25.7 |
| 1971 | 750.1 | 20.5 | 4.6 | 0.7 | 25.8 |
| 1972 | 771.3 | 17.1 | 6.6 | 0.8 | 24.5 |
| 1973 | 785.9 | 16.7 | 3.8 | 0.9 | 21.4 |
| 1974 | 797.9 | 14.0 | 4.7 | 0.6 | 19.3 |
| 1975 | 809.0 | 15.3 | 3.6 | 0.7 | 19.6 |
| 1976 | 825.7 | 15.3 | 4.3 | 0.8 | 20.4 |
| 1977 | 838.3 | 17.8 | 4.0 | 0.9 | 22.7 |
| | | | | | |

¹Unadjusted for beginning and ending inventories and military purchases. Adjusted for exports to foreign countries from the Honolulu Customs district.

²Includes preserved and prepared which are canned but not included in cured.

³Does not include local production.

Table 6.--Hawaii per capita consumption of commercial fish and shellfish by year and three types of preparation, 1970-77 including annual average visitor population.

| | Total civilian resident population plus visitors | Per | capita cons | umption | |
|------|--|------------------|---------------------|--------------------|-------|
| Year | 1 July (1,000 persons) | Fresh and frozen | Canned ² | Cured ³ | Total |
| | | | Pounds | | |
| 1970 | 760.2 | 18.9 | 5.0 | 0.9 | 24.8 |
| 1971 | 792.0 | 19.4 | 4.3 | 0.7 | 24.4 |
| 1972 | 822.6 | 16.0 | 6.2 | 0.7 | 23.0 |
| 1973 | 847.5 | 15.5 | 3.5 | 0.9 | 19.9 |
| 1974 | 863.9 | 12.9 | 4.4 | 0.9 | 18.2 |
| 1975 | 877.8 | 14.1 | 3.4 | 0.6 | 18.1 |
| 1976 | 904.2 | 14.0 | 3.9 | 0.7 | 18.6 |
| 1977 | 925.1 | 16.1 | 3.6 | 0.8 | 20.5 |

¹Unadjusted for beginning and ending inventories, and military purchases. Adjusted for exports from the Honolulu Customs district.

²Includes preserved and prepared which are canned but not included in cured.

³Does not include local production.

Table 7.--United States and Hawaii total per capita consumption of commercial fish and shellfish by year, 1970-77.

| | Total per cap | lta consumption |
|------|-------------------|---------------------|
| Year | U.S. | Hawaii ² |
| | Pou | ınds |
| 1970 | 11.8 | 25.7 |
| 1971 | 11.5 | 25.8 |
| 1972 | 12.5 | 24.5 |
| 1973 | 12.9 | 21.4 |
| 1974 | 12.2 | 19.3 |
| 1975 | 12.1 | 19.6 |
| 1976 | ³ 13.0 | 20.4 |
| 1977 | ³ 12.8 | 22.7 |

¹Population is total civilian resident population.

²Unadjusted for beginning and ending inventories and military purchases.

³Preliminary.

ad fish products for human consumption by year, type of preparation, quantity and Customs value, 1970-77.

| Cured | ত | Fish in airtight containers | rtight ers | Fish products (Pastes, balls sticks, roe) | ducts balls, roe) | All shellfish | l f tsh |
|------------------------|--------------------|-----------------------------|--------------------|---|-------------------------|------------------------|--------------------|
| Quantity (1,000 lb) | Value (\$1,000) | Quantity (1,000 1b) | Value (\$1,000) | Quantity (1,000 lb) | Value (\$1,000) | Quantity (1,000 lb) | Value (\$1,000) |
| 81.1 | 78.4 | 422.1 | 215.5 | 481.7 | 374.8 | 2,557.5 | 3,309.2 |
| 85.0 | 8.98 | 974.3 | 397.7 | 810.0 | 479.1 | 2,919.0 | 4,523.3 |
| 85.8 | 147.0 | 1,317.9 | 497.3 | 1,123.5 | 609.3 | 2,732.8 | 4,685.1 |
| 119.5 | 212.9 | 853.3 | 381.4 | 1,222.8 | 878.9 | 2,654.9 | 4,457.0 |
| 113.4 | 145.3 | 767.5 | 501.6 | 1,342.7 | 854.2 | 2,903.6 | 5,619.4 |
| 87.0 | 119.9 | 816.1 | 433.1 | 1,583.2 | 1,114.0 | 2,208.8 | 3,911.1 |
| 131.0 | 163.3 | 877.3 | 500.5 | 1,634.0 | 1,118.4 | 2,286.7 | 5,023.1 |
| 8.46 | 152.6 | 746.2 | 521.2 | 1,387.4 | 1,151.2 | 2,314.0 | 5,321.1 |
| | | | | | | | |

the foreign country, and therefore excludes U.S. import duties, freight, insurance, ise to the United States. This value may not reflect the actual transaction value.

Table 9.--Imports of fresh, frozen, chilled fish, and shellfish by major countries of origin, quantity, and Customs value, 2 1976 and 1977.

| Country of origin | Quantity (1,000 1b) | Customs value (\$1,000) | Quantity (1,000 lb) | Customs value (\$1,000) |
|-------------------|------------------------|-------------------------------|------------------------|-------------------------------|
| | <u>1976</u> | <u>6</u> | 197 | 7 |
| Fish | | | | |
| New Hebrides | 6,016.9 | 3,216.3 | 19,014.7 | 11,991.0 |
| Philippines | 23.6 | 19.5 | 3,345.9 | 865.4 |
| Taiwan | 1,876.1 | 1,411.3 | 2,749.4 | 2,019.6 |
| Japan | 1,070.7 | 742.1 | 727.2 | 534.2 |
| Panama | 3,856.0 | 1,104.0 | 185.5 | 55.7 |
| Fiji | 1,180.0 | 538.7 | | |
| Shellfish | | | | |
| New Zealand | 248.1 | 1,407.9 | 213.0 | 1,514.0 |
| Taiwan | 134.7 | 457.5 | 93.6 | 369.0 |
| Japan | 42.3 | 129.3 | 18.6 | 61.4 |

¹Country of origin as determined by U.S. Customs.

² See footnote 1, Table 8.

Table 10.—Foreign imports to Hawaii of fishery items, canned and in airtight containers, all manner of preparation, net weight in thousand pounds, 1970-77.

| Year | Salmon | Sardines | Tuna | Anchovies | Shellfish | Other | Total |
|------|--------|----------|-------|--------------|-----------|-------|---------|
| | | | | Thousand por | unds | | |
| 1970 | 18.6 | 45.0 | 95.0 | 54.6 | 1,323.6 | 208.9 | 1,745.7 |
| 1971 | 45.9 | 182.5 | 85.6 | 153.3 | 1,218.7 | 507.0 | 2,193.0 |
| 1972 | 68.2 | 389.5 | 55.2 | 228.4 | 1,247.0 | 576.6 | 2,564.0 |
| 1973 | 1 | 26.9 | 78.7 | 242.1 | 1,225.5 | 506.0 | 2,078.8 |
| 1974 | 11.6 | 21.8 | 120.0 | 213.1 | 1,898.8 | 401.0 | 2,666.3 |
| 1975 | 1 | 6.5 | 112.1 | 358.5 | 1,315.9 | 339.0 | 2,131.9 |
| 1976 | 1 | 34.3 | 139.3 | 355.7 | 1,319.8 | 348.0 | 2,197.1 |
| 1977 | 11.6 | 44.2 | 29.6 | 305.3 | 1,243.4 | 355.5 | 1,989.6 |
| | | | | | | | |

¹None reported.

Table 11 - Foreign imports to Hawaii, by principal items, 1976 and 1977.

| Item | 19 | 76 | 1977 | |
|-------------------------|-----------------|--------------------|------------------------|----------------------------------|
| | Thousand pounds | Thousand dollars I | Thousand pounds | Thousand dollars ¹ |
| Edible fishery products | | | | |
| Fresh and frozen | | | | |
| Tuna | | | | |
| Albacore | 5,177.6 | 2,980.8 | 14,959.8 | 10,183.9 |
| Skipjack | 2,200.2 | 627.5 | 2,343.7 | 598.7 |
| Yellowfin | 4,136.3 | 1,507.9 | 5,287.8 | 2,158.9 |
| Fillets | 2,494.1 | 1,832.1 | 3,253.1 | 2,358.4 |
| Shellfish | | | | |
| Clams | 29.2 | 27.7 | 17.3 | 26.6 |
| Lobsters | 297.6 | 1,619.8 | 245.4 | 1,654.9 |
| Shrimp and prawns | 242.9 | 779.2 | 137.5 | 486.9 |
| Other | 948.6 | 551.5 | 637.4 | 576.2 |
| Canned | | | | |
| Salmon | 0 | 0 | 11.6 | 22.6 |
| Anchovies | 355.7 | 94.0 | 305.3 | 94.4 |
| Sardine | | | | |
| Not in oil | 23.9 | 8.0 | 43.7 | 25.3 |
| Tuna | 139.3 | 128.3 | 29.6 | 35.2 |
| Bonito and yellowtail | 3.1 | 7.5 | 2.2 | 6.1 |
| Clams | 182.1 | 234.0 | 174.8 | 275.7 |
| Shrimp | 31.4 | 57.9 | 50.5 | 104.9 |
| Other | 510.0 | 549.5 | 4 74 . 4 | 768.4 |

Table 11.--Continued.

| Item | 19 | 76 | 19 | 77 |
|----------------------------------|-----------------|------------------|-----------------|------------------|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Cured | | | | |
| Pickled, salted, or dried | 577.8 | 1,078.5 | 71.9.2 | 1,278.6 |
| Smoked or kippered | 81.3 | 80.5 | 57.1 | 80.4 |
| Other fish and shellfish | 2,415.2 | 2,020.6 | 2,240.8 | 2,139.1 |
| Total edible fishery products | 19,846.3 | 14,185.4 | 30,991.3 | 22,875.2 |

¹See footnote 1, Table 8.

Table 12. -Estimated Hawaii per capita consumption of foreign imports of fish, fishery products, and shellfish by year and type of preparation, $1970-77.^{1}$

| | Total civilian | | Per o | Per capita consumption | ion | | |
|------|--------------------------------|--------------------|-----------------------------------|------------------------|----------------|-----------------|-------|
| | resident population, July 1 | Fresh, chilled, | Dried, salted pickled, smoked, | Fish in airtight | Pastes, balls, | | |
| Year | (1,000 persons) | frozen² | kippered | containers | sticks | Shellfish Total | Total |
| | | | Pounds | sp | | | |
| 1970 | 722.6 | 6.2 | 0.1 | 9.0 | 0.7 | 0.5 | 8.1 |
| 1971 | 750.1 | 4.8 | 0.1 | 1.3 | 1.1 | 0.7 | 8.0 |
| 1972 | 771.3 | 5.5 | 0.1 | 1.7 | 1.5 | 0.7 | 9.5 |
| 1973 | 785.9 | 5.0 | 0.2 | 1.1 | 1.6 | 0.5 | 8.4 |
| 1974 | 797.9 | 3.4 | 0.1 | 1.0 | 1.7 | 7.0 | 9.9 |
| 1975 | 0.608 | 4.7 | 0.1 | 1.0 | 2.0 | 0.4 | 8.2 |
| 1976 | 825.7 | 3.8 | 0.2 | 1.1 | 2.0 | 7.0 | 7.5 |
| 1977 | 838.3 | 2.0 | 0.1 | 6.0 | 1.7 | 0.3 | 5.0 |
| | | | | | | | |

 $^{^{\}mathrm{l}}\,\mathrm{Unadjusted}$ for exports, defense purchases, or beginning or ending stocks.

²Based on imported weight which is net product weight. In some cases this is meat-weight; in others, this is whole or round weight. Customs reports only net product weight.